

PHYSICAL PROPERTY MODIFICATION OF NANOTUBES

Abstract of the Disclosure

A method of modifying a physical property of a nanotube comprises
subjecting a nanotube having a defined lattice structure orientation
5 to stress conditions sufficient to disrupt the lattice structure and form a dipole of
dislocation cores therein, and wherein the dipole of dislocation cores split and
propagate in the nanotube in a manner such that the dipole of dislocation cores
are separated by at least one domain of modified structure, and wherein the
physical property of the nanotube are altered.